	Application No.	Ameliacetta
	Application No.	Applicant(s)
	09/505,803	ARNOLD, JAMES E
Notice of Allowability	Examiner	Art Unit
	Eric B. Compton	3726
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED i) or other appropriate comm RIGHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>an Appeal Brief filed</u>	<u>1/2/04</u> .	
2. The allowed claim(s) is/are 17-23 and 25-36.		
3. \boxtimes The drawings filed on <u>17 February 2000</u> are accepted by	the Examiner.	
4. Acknowledgment is made of a claim for foreign priority uses a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have a copies of the priority documents have a copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the	re been received. re been received in Applicati	on No
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.	
(a) I including changes required by the Notice of Draftsper	son's Patent Drawing Revie	w (PTO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	_•	
(b) including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment o	or in the Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in		
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s)	5 - 1 1 1 1 1 1 1 1 1 1	(
1. Notice of References Cited (PTO-892)		nformal Patent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ∐ Interview S Paper No	Summary (PTO-413), /Mail Date
 Information Disclosure Statements (PTO-1449 or PTO/SB/ Paper No./Mail Date 	08), 7. ☐ Examiner's —	s Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowance
of Biological Material	9. ⊠ Other <u>Ren</u>	<u>aarks</u> .

Application/Control Number: 09/505,803

Art Unit: 3726

DETAILED ACTION

Remarks

Applicant's Appeal Brief filed January 2, 2004, has been fully considered.

An Appeals Conference was held on June 30, 2004. Participants found Applicant's arguments persuasive, and agreed the case should not go to the Board of Patents Appeals and Interferences. It was further agreed upon that the case should be returned to the Examiner for further search and consideration of the pending claims.

Prior Art References

The newly-found prior art references listed on the enclosed PTO-892, but not used in a rejection of the claims, are cited for their teachings of coating and hot isostatic pressing.

EP 0 005 285 (SKF TRADING BV) broadly discloses a method for applying ceramic layers to metal substrates, by a flame spraying process and applying a hot isostatic pressing step to densify the coating and improve adhesion to the substrate. However, the reference does not disclose that the substrate has a cutting edge, nor that substrate retains the wear resistant coating material on the cutting edge portion during a sharpening process of the cutting edge portion.

JP 59-050177 (KOBE STEEL LTD) broadly discloses providing a hot isostatic pressing step to perform a diffusion bonding of a coating film to a metal substrate.

However, the reference does not disclose that the substrate has a cutting edge, nor that

Application/Control Number: 09/505,803

Art Unit: 3726

1

N.

substrate retains the wear resistant coating material on the cutting edge portion during a sharpening process of the cutting edge portion.

U.S. Pat. 5,297,746 to Mcbride at al. notes, with respect to the prior art, Col. 2, lines 20-29, hot isostatic pressing to bond a composite ceramic material insert to a cutting edge. However, the reference does not teach or suggest applying the composite material by a high-density coating process, such as by flame spraying, as claimed by Applicant.

U.S. Pat. 5,422,140 to Collin discloses a ceramic cutting insert having a wear resistant coating. To increase the adhesion of the coating to the ceramic body a hot isostatic pressing step is performed. The coating is used to prevent "a strong chemical reaction which occurs between the iron in the steel and the silicon carbide whiskers in the cutting insert at the high temperatures produced at the cutting edge during machining." Col. 1, lines 20-23. However, the reference does not disclose a metal substrate nor that substrate retains the wear resistant coating material on the cutting edge portion during a sharpening process of the cutting edge portion. Furthermore, unlike Applicant's invention, the ceramic body is coated with a low-density process, e.g., CVD, rather than by a high-density process.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric B. Compton whose telephone number is (703) 305-0240. The examiner can normally be reached on M-F, 9-5.

Page 4

Application/Control Number: 09/505,803

Art Unit: 3726

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter B. Vo can be reached on (703) 308-1789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eric Compton
Patent Examiner

A/U 3726